

Author index

- Akiyama, K. 151
Arifulina, A.E. 183
Aspinall, G.O. 227, 245
- Bakx, E.J. 265
Banaszek, A. 173
Bennis, K. 307
Bernabé, M. 339
- Costello, C.E. 331
Critchley, P. 293
Crout, D.H.G. 293, 315, 321
- Descotes, G. C1
De Wit, D. 201
Dmitriev, B.A. 183
Duddeck, H. 1
- Ebata, T. 93
Elyakova, L.A. 41
Esko, J.D. 161
- Gelas, J. 307
Gil-Serrano, A.M. 339
Glaudemans, C.P.J. 133
González-Jiménez, I. 339
Grosskurth, H. 215
- Helbig, J.H. 215
Hiegemann, M. 1
Horvat, Š. 21
- Jakas, A. 21
Jiménez-Barbero, J. 339
- Kaczmarek, J. 107
Kajtár-Peredy, M. C1
Kawazu, K. 151
Kholodkova, E.V. 327
Kidrič, J. 21
Knirel, Y.A. 183, 215, 327
- Kobayashi, A. 151
Kocharova, N.A. 327
Kojić-Prodić, B. 1, 21
Kováč, P. 117
Kovács, J. C1
Kurjanczyk, L.A. 227
- Lačan, G. 1
Lei, P. 117
Leppänen, A. 331
Lönnberg, H. 107
L'vov, V.L. 183
- Maaheimo, H. 331
MacManus, D.A. 281
Magnus, V. 1
Matsumoto, K. 93
Matsushita, H. 93
Mazur, A.K. 41
Megías, M. 339
Milinković, V. 21
Monteiro, M.A. 227, 245
- Niemelä, R. 331
- Ogawa, Y. 117
- Packwood, J. 293, 321
Pakulski, Z. 173
Pang, H. 227, 245
Penner, J.L. 227
Petráková, E. 133
Petukhov, M.G. 41
Pickarska-Bartoszewicz, B. 83
Pintér, I. C1
Pinto, B.M. 59
Praly, J.-P. C1
Preyss, M. 107
Pristovšek, P. 21

Räbinä, J. 331
Renkonen, O. 331

Samuel, C.J. 293
Sandri, I. 193
Sarkar, A.K. 161
Schipper, D. 75, 265
Schols, H.A. 265
Senchenkova, S.N. 183
Shashkov, A.S. 183
Singh, S. 293, 321
Stanislavsky, E.S. 327
Stuike-Prill, R. 59
Szafrank, J. 107

Tejero-Mateo, P. 339
Temeriusz, A. 83
Thomassigny, C. 307

Tomić, S. 1
Tournois, H. 201

Van Soest, J.J.G. 201
Venturelli, T. 193
Vic, G. 315
Vliegenthart, J.F.G. 201
Volpi, N. 193
Voragen, A.G.J. 265
Vulfson, E.N. 281

Wawer, I. 83

Yakovlev, A.V. 183

Zähringer, U. 215
Zamojski, A. 173

Subject index

Acetolysis

Sulfuric acid-catalyzed acetolysis of anomeric ethyl 2,3,4,6-tetra-*O*-acetyl-D-glucopyranosides: kinetics and mechanism 107

N-Acetylhexosaminidase

Glycosidase-catalysed oligosaccharide synthesis: preparation of *N*-acetylchitooligosaccharides using the β -*N*-acetylhexosaminidase of *Aspergillus oryzae* 293

Enzymatic synthesis of 2-acetamido-4-*O*-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose and 2-acetamido-6-*O*-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose catalysed by the β -*N*-acetylhexosaminidase from *Aspergillus oryzae* 321

Acylation

Substituent effects on the regioselectivity of enzymatic acylation of 6-*O*-alkylglycopyranosides using *Pseudomonas cepacia* lipase 281

2-*N*-Alkyl-D-altrosamines

A general method for synthesis of alkyl 2-*N*-substituted and 2-*N,N*-substituted D-altrosamines C5

Amadori compound

Synthesis and conformational analysis of the Amadori compound *N*-(2,3,4,5-di-*O*-isopropylidene-1-deoxy- β -D-fructopyranosyl-1-yl)-L-tyrosine benzyl ester 21

AMBER force field

Solution structure of the trisaccharide and hexasaccharide fragments of the O-antigen of the lipopolysaccharide of *Rhizobium tropici* CIAT899 339

Amino acids

^{13}C CP MAS and high-resolution ^1H , ^{13}C , ^{15}N NMR study of new ureido sugars, derivatives of 2-amino-2-deoxy- β -D-glucopyranose and L-amino acid 83

2-Amino-1,3,4-octadecanetriol

Novel synthesis of phytosphingosine from levoglucosenone 93

Amino sugars

A general method for synthesis of alkyl 2-*N*-substituted and 2-*N,N*-substituted D-altrosamines C5

Anomerization

Sulfuric acid-catalyzed acetolysis of anomeric ethyl 2,3,4,6-tetra-*O*-acetyl-D-glucopyranosides: kinetics and mechanism 107

O-Antigen

Synthesis of the methyl α -glycoside of a trisaccharide mimicking the terminus of the O antigen of *Vibrio cholerae* O:1, serotype Inaba 117

Structure of the O-specific polysaccharide chain of *Shigella boydii* type 5 lipopolysaccharide: a repeated study 183

Structure of the O-specific polysaccharide chain of *Citrobacter freundii* O28,1c lipopolysaccharide 327

Auxin

Synthesis and conformational analysis of plant hormone (auxin) related compound 2-(indol-3-yl)ethyl β -D-galactopyranoside and its 2,3,4,6-tetra-*O*-acetyl derivative 1

Azido sugars

Unexpected transformation of 2,3,4,6-tetra-*O*-acetyl-D-glucopyranosylidene 1,1-diazide with triphenylphosphine C1

Bacterial polysaccharides

Structure of the O-specific polysaccharide chain of *Citrobacter freundii* O28,1c lipopolysaccharide 327

Branched oligosaccharides

Investigation of the conformational properties of a β -(1 \rightarrow 3) branched β -(1 \rightarrow 6) heptasac-

- charide elicitor and its analogues by internal coordinate stochastic dynamics 41
- Campylobacter lari* PC 637
Lipo-oligosaccharide of *Campylobacter lari* strain PC 637. Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 227
- Campylobacter lari* type strain (ATCC 35221)
Lipo-oligosaccharide of the *Campylobacter lari* type strain ATCC 35221. Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 245
- ¹³C CP MAS solid state
¹³C CP MAS and high-resolution ¹H, ¹³C, ¹⁵N NMR study of new ureido sugars, derivatives of 2-amino-2-deoxy- β -D-glucopyranose and L-amino acid 83
- Cell-wall polysaccharide
Conformational analysis of oligosaccharides corresponding to the cell-wall polysaccharide of the *Streptococcus* group A by Metropolis Monte Carlo simulations 59
- Chemo-enzymatic synthesis
A novel method for chemo-enzymatic synthesis of elicitor-active chitosan oligomers and partially N-deacetylated chitin oligomers using N-acylated chitotrioses as substrates in a lysozyme-catalyzed transglycosylation reaction system 151
- Chitooligosaccharides
Glycosidase-catalysed oligosaccharide synthesis: preparation of N-acetylchitooligosaccharides using the β -N-acetylhexosaminidase of *Aspergillus oryzae* 293
- Chitosan oligomer
A novel method for chemo-enzymatic synthesis of elicitor-active chitosan oligomers and partially N-deacetylated chitin oligomers using N-acylated chitotrioses as substrates in a lysozyme-catalyzed transglycosylation reaction system 151
- Chondroitin sulfate
Activity of chondroitin ABC lyase and hyaluronidase on free-radical degraded chondroitin sulfate 193
- Citrobacter*
Structure of the O-specific polysaccharide chain of *Citrobacter freundii* O28,1c lipopolysaccharide 327
- Conformation
Solution structure of the trisaccharide and hexasaccharide fragments of the O-antigen of the lipopolysaccharide of *Rhizobium tropici* CIAT899 339
- Conformational states
Investigation of the conformational properties of a β -(1 \rightarrow 3) branched β -(1 \rightarrow 6) heptasaccharide elicitor and its analogues by internal coordinate stochastic dynamics 41
- Core oligosaccharide
Structures of decasaccharide and tridecasaccharide tetraphosphates isolated by strong alkaline degradation of O-deacylated lipopolysaccharide of *Pseudomonas fluorescens* strain ATCC 49271 215
- Cyclisation
Synthesis from lactose of new enantiomerically pure polyhydroxylated pyrrolidines with branched structures 307
- Degradation
Structures of decasaccharide and tridecasaccharide tetraphosphates isolated by strong alkaline degradation of O-deacylated lipopolysaccharide of *Pseudomonas fluorescens* strain ATCC 49271 215
- Deoxyoligosaccharides
Synthesis of the methyl α -glycosides of some isomalto-oligosaccharides specifically deoxy-generated at position C-4 133
- 2,4-Diamino-2,4,6-trideoxy-L-altropyranose
The synthesis of derivatives of 2,4-diamino-2,4,6-trideoxy-D-gulo- and L-alto-hexopyranoses 173
- 2,4-Diamino-2,4,6-trideoxy-D-gulopyranose
The synthesis of derivatives of 2,4-diamino-2,4,6-trideoxy-D-gulo- and L-alto-hexopyranoses 173
- N-(2,3:4,5-Di-O-isopropylidene-1-deoxy- β -D-fructopyranos-1-yl)-L-tyrosine benzyl ester
Synthesis and conformational analysis of the Amadori compound N-(2,3:4,5-di-O-isopropylidene-1-deoxy- β -D-fructopyranos-1-yl)-L-tyrosine benzyl ester 21
- Disaccharides
Enzymatic synthesis of 2-acetamido-4-O-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose and 2-acetamido-6-O-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose catalysed by the β -N-acetylhexosaminidase from *Aspergillus oryzae* 321
- Elicitor
A novel method for chemo-enzymatic synthesis of elicitor-active chitosan oligomers and partially N-deacetylated chitin oligomers using N-acylated chitotrioses as substrates in a lysozyme-catalyzed transglycosylation reaction system 151

Enterobacteria

Structure of the O-specific polysaccharide chain of *Shigella boydii* type 5 lipopolysaccharide: a repeated study 183

Enzymatic synthesis

Glycosidase-catalysed oligosaccharide synthesis: preparation of *N*-acetylchitooligosaccharides using the β -*N*-acetylhexosaminidase of *Aspergillus oryzae* 293

Enzymatic synthesis of 2-acetamido-4-*O*-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose and 2-acetamido-6-*O*-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose catalysed by the β -*N*-acetylhexosaminidase from *Aspergillus oryzae* 321

Site-directed enzymatic α -(1 \rightarrow 3)-L-fucosylation of the tetrasaccharide Gal β (1 \rightarrow 4)GlcNAc β (1 \rightarrow 3)Gal β (1 \rightarrow 4)GlcNAc at the distal *N*-acetylglucosamine unit 331

Enzymes

Substituent effects on the regioselectivity of enzymatic acylation of 6-*O*-alkylglycopyranosides using *Pseudomonas cepacia* lipase 281

Enzymic degradation

A xylogalacturonan subunit present in the modified hairy regions of apple pectin 265

Extracellular polysaccharide

Lipo-oligosaccharide of *Campylobacter lari* strain PC 637. Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 227

Lipo-oligosaccharide of the *Campylobacter lari* type strain ATCC 35221. Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 245

 α -(1 \rightarrow 3)-L-Fucosyltransferase

Site-directed enzymatic α -(1 \rightarrow 3)-L-fucosylation of the tetrasaccharide Gal β (1 \rightarrow 4)GlcNAc β (1 \rightarrow 3)Gal β (1 \rightarrow 4)GlcNAc at the distal *N*-acetylglucosamine unit 331

Galactopyranoside

Synthesis and conformational analysis of plant hormone (auxin) related compound 2-(indol-3-yl)ethyl β -D-galactopyranoside and its 2,3,4,6-tetra-*O*-acetyl derivative 1

Synthesis of allyl and benzyl β -D-glucopyranosides, and allyl β -D-galactopyranoside from D-glucose or D-galactose and the corresponding alcohol using almond β -D-glucosidase 315

Glucopyranoside

Synthesis of allyl and benzyl β -D-glucopyranosides, and allyl β -D-galactopyranoside

from D-glucose or D-galactose and the corresponding alcohol using almond β -D-glucosidase 315

Glucopyranosides

Sulfuric acid-catalyzed acetolysis of anomeric ethyl 2,3,4,6-tetra-*O*-acetyl-D-glucopyranosides: kinetics and mechanism 107

Glucosidase

Synthesis of allyl and benzyl β -D-glucopyranosides, and allyl β -D-galactopyranoside from D-glucose or D-galactose and the corresponding alcohol using almond β -D-glucosidase 315

Glycosaminoglycan priming activity

Synthesis and glycosaminoglycan priming activity of three disaccharides related to the linkage region tetrasaccharide of proteoglycans 161

Glycosaminoglycans

Activity of chondroitin ABC lyase and hyaluronidase on free-radical degraded chondroitin sulfate 193

Glycosidase

Glycosidase-catalysed oligosaccharide synthesis: preparation of *N*-acetylchitooligosaccharides using the β -*N*-acetylhexosaminidase of *Aspergillus oryzae* 293

Enzymatic synthesis of 2-acetamido-4-*O*-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose and 2-acetamido-6-*O*-(2-acetamido-2-deoxy- β -D-galactopyranosyl)-2-deoxy-D-glucopyranose catalysed by the β -*N*-acetylhexosaminidase from *Aspergillus oryzae* 321

Glycosidase inhibitor

Synthesis from lactose of new enantiomerically pure polyhydroxylated pyrrolidines with branched structures 307

Glycosides

Substituent effects on the regioselectivity of enzymatic acylation of 6-*O*-alkylglycopyranosides using *Pseudomonas cepacia* lipase 281

 ^1H -, ^1H -, ^{13}C -, ^1H -, ^{31}P 2D NMR

Structural studies of the teichoic acids from *Bacillus licheniformis* 75

 ^1H NMR

^{13}C CP MAS and high-resolution ^1H -, ^{13}C -, ^{15}N NMR study of new ureido sugars, derivatives of 2-amino-2-deoxy- β -D-glucopyranose and L-amino acid 83

Internal coordinate stochastic dynamics

Investigation of the conformational properties of a β -(1 \rightarrow 3) branched β -(1 \rightarrow 6) heptasaccharide elicitor and its analogues by internal coordinate stochastic dynamics 41

IR spectroscopy

Short-range structure in (partially) crystalline potato starch determined with attenuated total reflectance Fourier-transform IR spectroscopy 201

 α -Isomalto-oligosaccharides

Synthesis of the methyl α -glycosides of some isomalto-oligosaccharides specifically deoxygenated at position C-4 133

 α -D-Isosaccharino-1,4-lactone

Synthesis from lactose of new enantiomerically pure polyhydroxylated pyrrolidines with branched structures 307

Kinetics

Sulfuric acid-catalyzed acetolysis of anomeric ethyl 2,3,4,6-tetra-O-acetyl-D-glucopyranosides: kinetics and mechanism 107

Lactone

Synthesis from lactose of new enantiomerically pure polyhydroxylated pyrrolidines with branched structures 307

Lactose

Synthesis from lactose of new enantiomerically pure polyhydroxylated pyrrolidines with branched structures 307

Levoglucosenone

Novel synthesis of phytosphingosine from levoglucosenone 93

Lewis x

Site-directed enzymatic α -(1 \rightarrow 3)-L-fucosylation of the tetrasaccharide Gal β (1 \rightarrow 4)GlcNAc β (1 \rightarrow 3)Gal β (1 \rightarrow 4)GlcNAc at the distal N-acetylglucosamine unit 331

Lipase

Substituent effects on the regioselectivity of enzymatic acylation of 6-O-alkylglycopyranosides using *Pseudomonas cepacia* lipase 281

Lipo-oligosaccharide

Lipo-oligosaccharide of *Campylobacter lari* strain PC 637. Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 227

Lipo-oligosaccharide of the *Campylobacter lari* type strain ATCC 35221. Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 245

Lipopolysaccharide

Structure of the O-specific polysaccharide chain of *Shigella boydii* type 5 lipopolysaccharide: a repeated study 183

Structures of deca- and tridecasaccharide tetraphosphates isolated by strong alkaline degradation of O-deacylated lipopolysaccharide of *Pseudomonas fluorescens* strain ATCC 49271 215

Structure of the O-specific polysaccharide chain of *Citrobacter freundii* O28,1c lipopolysaccharide 327

Solution structure of the trisaccharide and hexasaccharide fragments of the O-antigen of the lipopolysaccharide of *Rhizobium tropici* CIAT899 339

Low-water system

Synthesis of allyl and benzyl β -D-glucopyranosides, and allyl β -D-galactopyranoside from D-glucose or D-galactose and the corresponding alcohol using almond β -D-glucosidase 315

Lysozyme

A novel method for chemo-enzymatic synthesis of elicitor-active chitosan oligomers and partially N-deacetylated chitin oligomers using N-acetylated chitotrioses as substrates in a lysozyme-catalyzed transglycosylation reaction system 151

Maillard products

Synthesis and conformational analysis of the Amadori compound N-(2,3,4,5-di-O-isopropylidene-1-deoxy- β -D-fructopyranos-1-yl)-L-tyrosine benzyl ester 21

MALDI-TOF MS

Site-directed enzymatic α -(1 \rightarrow 3)-L-fucosylation of the tetrasaccharide Gal β (1 \rightarrow 4)GlcNAc β (1 \rightarrow 3)Gal β (1 \rightarrow 4)GlcNAc at the distal N-acetylglucosamine unit 331

Melting

Short-range structure in (partially) crystalline potato starch determined with attenuated total reflectance Fourier-transform IR spectroscopy 201

Methyl glycosides

Synthesis of the methyl α -glycosides of some isomalto-oligosaccharides specifically deoxygenated at position C-4 133

Metropolis Monte Carlo simulations

Conformational analysis of oligosaccharides corresponding to the cell-wall polysaccharide of the *Streptococcus* group A by Metropolis Monte Carlo simulations 59

Molecular dynamics

Synthesis and conformational analysis of plant hormone (auxin) related compound 2-(indol-3-yl)ethyl β -D-galactopyranoside and its 2,3,4,6-tetra-O-acetyl derivative 1

Synthesis and conformational analysis of the Amadori compound N-(2,3,4,5-di-O-isopropylidene-1-deoxy- β -D-fructopyranos-1-yl)-L-tyrosine benzyl ester 21

Molecular mechanics

Synthesis and conformational analysis of plant hormone (auxin) related compound 2-(indol-3-

- yl)ethyl β -D-galactopyranoside and its 2,3,4,6-tetra-O-acetyl derivative 1
- Molecular modelling
- Solution structure of the trisaccharide and hexasaccharide fragments of the O-antigen of the lipopolysaccharide of *Rhizobium tropici* CIAT899 339
- NMR
- Structure of the O-specific polysaccharide chain of *Citrobacter freundii* O28,1c lipopolysaccharide 327
- Site-directed enzymatic α -(1 \rightarrow 3)-L-fucosylation of the tetrasaccharide Gal β -(1 \rightarrow 4)GlcNAc β -(1 \rightarrow 3)Gal β -(1 \rightarrow 4)GlcNAc at the distal N-acetylglucosamine unit 331
- Solution structure of the trisaccharide and hexasaccharide fragments of the O-antigen of the lipopolysaccharide of *Rhizobium tropici* CIAT899 339
- NMR spectroscopy
- Synthesis and conformational analysis of plant hormone (auxin) related compound 2-(indol-3-yl)ethyl β -D-galactopyranoside and its 2,3,4,6-tetra-O-acetyl derivative 1
- Synthesis and conformational analysis of the Amadori compound N(2,3,4,5-di-O-isopropylidene-1-deoxy- β -D-fructopyranos-1-yl)-L-tyrosine benzyl ester 21
- Structure of the O-specific polysaccharide chain of *Shigella boydii* type 5 lipopolysaccharide: a repeated study 183
- Structures of decasaccharide and tridecasaccharide tetraphosphates isolated by strong alkaline degradation of O-deacylated lipopolysaccharide of *Pseudomonas fluorescens* strain ATCC 49271 215
- ¹⁵N NMR
- ¹³C CP MAS and high-resolution ¹H, ¹³C, ¹⁵N NMR study of new ureido sugars, derivatives of 2-amino-2-deoxy- β -D-glucopyranose and L-amino acid 83
- NOE
- Synthesis and conformational analysis of plant hormone (auxin) related compound 2-(indol-3-yl)ethyl β -D-galactopyranoside and its 2,3,4,6-tetra-O-acetyl derivative 1
- Oligosaccharide
- Synthesis of the methyl α -glycoside of a trisaccharide mimicking the terminus of the O antigen of *Vibrio cholerae* O:1, serotype Inaba 117
- Oligosaccharides
- Conformational analysis of oligosaccharides corresponding to the cell-wall polysaccharide of the *Streptococcus* group A by Metropolis Monte Carlo simulations 59
- Organic solvents
- Substituent effects on the regioselectivity of enzymatic acylation of 6-O-alkylglycopyranosides using *Pseudomonas cepacia* lipase 281
- cis-Oxyamination
- Novel synthesis of phytosphingosine from levoglucosenone 93
- Partially N-deacetylated chitin oligomer
- A novel method for chemo-enzymatic synthesis of elicitor-active chitosan oligomers and partially N-deacetylated chitin oligomers using N-acylated chitotrioses as substrates in a lysozyme-catalyzed transglycosylation reaction system 151
- Pectin
- A xylogalacturonan subunit present in the modified hairy regions of apple pectin 265
- Phytosphingosine
- Novel synthesis of phytosphingosine from levoglucosenone 93
- Polysaccharide
- Structure of the O-specific polysaccharide chain of *Shigella boydii* type 5 lipopolysaccharide: a repeated study 183
- Proteoglycans
- Synthesis and glycosaminoglycan priming activity of three disaccharides related to the linkage region tetrasaccharide of proteoglycans 161
- Pseudomonas*
- Structures of decasaccharide and tridecasaccharide tetraphosphates isolated by strong alkaline degradation of O-deacylated lipopolysaccharide of *Pseudomonas fluorescens* strain ATCC 49271 215
- Pyran[3,4-d]-1,2,3-triazole
- Unexpected transformation of 2,3,4,6-tetra-O-acetyl-D-glucopyranosylidene 1,1-diazide with triphenylphosphine Cl
- Pyrrrolidine, polyhydroxylated
- Synthesis from lactose of new enantiomerically pure polyhydroxylated pyrrolidines with branched structures 307
- Regioselectivity
- Substituent effects on the regioselectivity of enzymatic acylation of 6-O-alkylglycopyranosides using *Pseudomonas cepacia* lipase 281
- Reverse hydrolysis
- Synthesis of allyl and benzyl β -D-glucopyranosides, and allyl β -D-galactopyranoside from D-glucose or D-galactose and the corresponding alcohol using almond β -D-glucosidase 315
- Rhamnogalacturonan
- A xylogalacturonan subunit present in the modified hairy regions of apple pectin 265

Shigella boydii

Structure of the O-specific polysaccharide chain of *Shigella boydii* type 5 lipopolysaccharide: a repeated study 183

Starch

Short-range structure in (partially) crystalline potato starch determined with attenuated total reflectance Fourier-transform IR spectroscopy 201

Streptococcus group A

Conformational analysis of oligosaccharides corresponding to the cell-wall polysaccharide of the *Streptococcus* group A by Metropolis Monte Carlo simulations 59

Structure

Short-range structure in (partially) crystalline potato starch determined with attenuated total reflectance Fourier-transform IR spectroscopy 201

Structures of decasaccharide and tridecasaccharide tetraphosphates isolated by strong alkaline degradation of O-deacylated lipopolysaccharide of *Pseudomonas fluorescens* strain ATCC 49271 215

Sugar phosphinimines

Unexpected transformation of 2,3,4,6-tetra-O-acetyl-D-glucopyranosylidene 1,1-diazide with triphenylphosphine C1

Synthesis

Synthesis and conformational analysis of the Amadori compound *N*-(2,3:4,5-di-O-isopropylidene-1-deoxy- β -D-fructopyranos-1-yl)-L-tyrosine benzyl ester 21

Synthesis of the methyl α -glycosides of some isomaltoligosaccharides specifically deoxygenated at position C-4 133

Teichoic acids

Structural studies of the teichoic acids from *Bacillus licheniformis* 75

Lipo-oligosaccharide of *Campylobacter lari*

Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 227

Lipo-oligosaccharide of the *Campylobacter lari* type strain ATCC 35221. Structure of the liberated oligosaccharide and an associated extracellular polysaccharide 245

Trisaccharide

Synthesis of the methyl α -glycoside of a trisaccharide mimicking the terminus of the O antigen of *Vibrio cholerae* O:1, serotype Inaba 117

Ureido sugars

^{13}C CP MAS and high-resolution ^1H , ^{13}C , ^{15}N NMR study of new ureido sugars, derivatives of 2-amino-2-deoxy- β -D-glucopyranose and L-amino acid 83

Vibrio cholerae O:1

Synthesis of the methyl α -glycoside of a trisaccharide mimicking the terminus of the O antigen of *Vibrio cholerae* O:1, serotype Inaba 117

Water

Short-range structure in (partially) crystalline potato starch determined with attenuated total reflectance Fourier-transform IR spectroscopy 201

X-ray diffraction

Synthesis and conformational analysis of plant hormone (auxin) related compound 2-(indol-3-yl)ethyl β -D-galactopyranoside and its 2,3,4,6-tetra-O-acetyl derivative 1

X-ray diffractometry

Short-range structure in (partially) crystalline potato starch determined with attenuated total reflectance Fourier-transform IR spectroscopy 201

X-ray structure

Synthesis and conformational analysis of the Amadori compound *N*-(2,3:4,5-di-O-isopropylidene-1-deoxy- β -D-fructopyranos-1-yl)-L-tyrosine benzyl ester 21

Xylogalacturonan

A xylogalacturonan subunit present in the modified hairy regions of apple pectin 265

